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120 B 011.1

管用新葉出願公告

**費用新案公報** 

昭27-3908

昭 27.5.14 图 25—17480

**出願 昭 24.10.25** 

(前特許出頭日袋用)

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山梨縣南都留郡下吉田町729

(全2頁)

#### 運面の略解

第1 岡は正岡岡第2 岡は平岡岡第3,4 岡は縦断 面配第5回は從來品の一部新商を示す

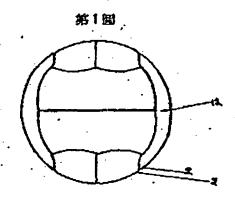
### 質用新家の性質、作用及效果の要領

本考案はフットボール、パレーボール等の如き **砕合せてなる中空ボールの外皮はの姿面の様即ち** 経合せる部分ろを送しろと同程度の厚さの属平片・・・ いをはの裏面に附着したるものなり

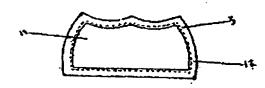
之を適宜の枚数にて総合せ内部に承辺したると を漏平片いの周囲の切口|を以て総合せたる終ろ を相互に挟み合ふが故に凸凹なくチューブ3に冬 氣を充塡するとき從來のと異り平均に膨脹するが 故に縫合せたる部分ろ丈を温烈に外部に超迫する ことなきため全妻面に比して外側部2丈多く磨破 をする事なく外皮表面は均等に磨滅をするため長 期の使用を可能ならしむるものなり尚内都裏面は 平坦なるためチューブの破損の姿をも 減 少 せ し む

#### 登録請求の範囲

岡町に示す如く外皮はの裏側に総合せる部分の 録るを陸し扇平片いを附着し適宜の枚鼓にて鑑合 せ之を内部に変返したるとき総合せたる部分の終 ろを扁平片いの周圍の切口 1 にて相互に挟み合ふ 様なしたる中空ボール外皮の構造



第2图



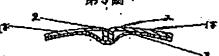
第3腳



第4阅



第5圖



#### Japanese Patent Office Examined Utility Model Application

#### 120 B 011.1

Utility Model Application Publication No.: S27-3908

Date of Publication: May 14, 1952
Date of Application: October 24, 1949
(Date and Use of Previous Patent Application)

Application No. S25-27480

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(Total of 2 pages)

#### Hollow Ball Cover

#### Brief Explanation of Drawings

Figure 1 is a frontal view. Figure 2 is a top view. Figures 3 and 4 are views of longitudinal sections. Figure 5 is a partial cross sectional view of a previous product.

Overview of Materials, Operation, and Effects of this Utility Model

This utility model pertains to hollow balls that are sewn together, such as footballs, volleyballs, etc. Specifically, this utility model describes a process by which the edge of the rear surface of the cover (c), namely the sewn portion (b) is left as is, and a flat piece (a) is bonded to the rear surface of the cover (c) at the same thickness of the sewn portion (b).

When the proper number of completed portions are turned inward during sewing, the edges (b), which are sewn using the cut ends (1) that run along the circumference of

the flat pieces (a) match so that there is no unevenness over the surface, and when the tube (3) is inflated with air, the ball expands evenly without any extreme pressure placed on the outside along the sewn portions and without any significant wear occurring to any one portion of the outer surface. As a result of the even expansion that occurs to the surface of the cover, it is possible to extend the useful life of the ball as well as reduce the amount of damage that occurs to the tube due to the fact that the inner surface of the cover is also made more even.

#### Scope of Patent Claims

As shown in the drawing, when the edge (h) of the sewn portion on the rear side of the cover (c) is left as is, and a tlat piece (a) is attached, the proper number of these completed pieces are turned inward during sewing to form a cover for a hollow ball in which the edges (b) of the sewn portions fit together evenly using the cut ends (1) that run along the circumference of the flat pieces (a).

Figure 1

Figure 2

Figure 3

Figure 4

Figure 5